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PTO/SB/08 (2/9 Attorney's Docket No. 18136-1050 C1 Form PTO-1449 To be Assigned INFORMATION DISCLOSURE STATEMENT Applicant(s) Jian ZHANG, et al. Group Art Unit: To be Assigned Filing Date: Herewith 2003 1649 (use several sheets if necessary) U.S. PATENT DOCUMENTS Date Document No. Name Class Subclass Filing Date Examiner Ref. (if appropriate) **Initials** No. \*1. 04/1999 5,891,636 435 Van Gelder **\*2**. 278 11/1999 5,994,623 Broglie, et al. 800 **\***3. 01/1999 435 91.1 5.858.731 Sorge, et al. FOREIGN PATENT DOCUMENTS Examiner Ref. Date Document No. Class **Subclass** Country Translation Initials No. YES NO \*4. 04/2001 WO 01/25431 **PCT \*5**. **PCT** 04/1997 WO 97/14790 **\***6. 01/1999 WO 99/00422 **PCT \*7**. 05/2001 1 096 008 A2 **EPO** \*8. 03/02 WO 02 24726 A PCT OTHER DOCUMENTS (including author, title, date, pertinent pages, etc.) Title Examiner Ref. **Initials** No. \*9. Alexander, H., "Altering the Antigenicity of Proteins," Proc. Natl. Acad. Sci. USA - 89:3352-3356 (1992) \*10. Axel, "The Molecular Logic of Smell", Scientific American - pp. 154-159 (1995) \*11. Barinaga, "Salmon Follow Watery Odors Home", Science - 286:705-706 (1999) \*12. Berliner, D. L., "Steroidal Substances Active in the Human Vomeronasal Organ Affect Hypothalamic Function", J. Steroid Biochem Molec Biol - 58:1-2 (1996) **\*13**. Berliner, D. L., L. Monti-Bloch, C. Jennings-White and V. Diaz-Sanchez.. J Steroid Biochem, Molec Biol - 58:259-265 \*14. Bowie, J.U., et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", Science 247:1306-1310 (1990) \*15. Broadwell, R. D., "Olfactory Relationships of the Telencephalon and Diencephalon in the Rabbit", J Comp Neurol 163:329-346 (1975) **\***16. Cao, Y., B. C. Oh, and L. Stryer, "Clonomg and localization of two multigene receptor families in goldfish olfactory epithelium", Proc Natl Acad Sci USA - 95:11987-11992 (1998) \*17. Dulac, et al, "A novel family of genes encoding putative pheromone receptors in mammals", Cell - 83(2):195-206 XP002156990 (1995) United States \*18. Dulasc, C., "Sensory coding of Pheromone Signals in Mammals," Current Opinion in Neurobiology 10 - 10:511-518

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Gaafar, H, A, A. A. Tantawy, A. A. Melis, D. M. Hennawy and H. M. Shehata, "The Vomeronasal (Jacobson's) Organ in

Adult Humans: Frequency of Occurrence and Enzymatic Study", Acta Otolargyngol - 118:408-412 (1998)

\*19.

PTO/SB/08 (2/9 Sheet 2 of 2

Form PTO-1449		Form PTO-1449	Attorney's Docket No. 18136-1050 C1	Application Serial No. To be Assigned				
INFORMATION DISCLOSURE STATEMENT			Applicant(s)					
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			OTHER DOCUMENTS					
		(including aut	hor, title, date, pertinent pages, etc.)					
M	*20.	Grosser et al., "Behavioral and electro Pschneuroendocrinology – <u>25</u> :289-299	physiological effects of androstadienone, a 9 (2000).	ı human pheromone",				
i	*21.	Gruber, et al., "Construction of Supers	Script Human cDNA Libraries", Focus - <u>17(</u>	2) 43-44				
	*22.		tive pheromone receptors in mammals with – <u>90(4)</u> :763-773 XP002913897 (1997), United					
	*23.	Jacob, "Human Pheromones", The Ph	ysiology of Taste, Hormones & Behavior -	<u>37</u> :57-78 (2000)				
	*24.	Kallmann, F., W. A. Schoenfeld and S. 48:203-236 (1943)	E. Barrera., "The Genetic Aspects of Prima	ry Eunucholdism", <i>Am J Ment Defic</i>				
	*25.		Kel, A., A. Ptitsyn V. Babenko, S. Meier-Ewert, and H. Lebrach. "A genetic algorithm for designing gene family-specific oligonucleotide sets used for hybridization: the G protein-coupled receptor protein superfamily", <i>Bioinformatics</i> - 14:259-270 (1998)					
	*26.		Keverne, et al, "The vomeronasal organ", Science, American Association For The Advancement Of Science, U.S. – 286(5440):716-720 XP002157783 (1999) ISSN: 0036-8075.					
	*27.	Kevetter et al, "Connection of the Corticomedial Amygdala in the Golden Hamster. I. Efferents of the Vomeronasal Amygdala", <i>J of Comparative Neurology</i> - <u>197</u> :81-89 (1991)						
	*28.	Krieger, et al., "Olfactory Reception in Invertebrates", Science - 286:720-723 (1999)						
	*29.	Krieger, J. et al., "Selective Activation of G Protein Subtypes in the Vomeronasal Organ upon Stimulation with Urinderived Compounds", <i>J Biol Chem</i> - <u>274</u> :4656-4662 (1999)						
	*30.	Laurent, "A Systems Perspective On E	Early Olfactory Coding", Science - 286:723-	728 (1999)				
	*31.	Luscher, M. et al., "Pheromones': a New Term for a Class of Biologically Active Substances", Nature - 18:55-56 (1959)						
	<b>*32.</b>	Malakoff, "Following The Scent Of Avi	Malakoff, "Following The Scent Of Avian Olfaction", Science – 286:704-705 (1999)					
	<b>*33</b> .	Matsunami, H.et al., "A Multigene Family Encoding a diverse Array of Putative Pheromone Recptors in Mammals", <i>Cell</i> - 90:775-784 (1997)						
	*34.	Meredith, M., "Sensory Physiology of Pheromone Communication", (Vandenbergh, ed.), Academic Press - pp. 199-252 (1983)						
	*35.	Mombaerts, "Seven-Transmembrane F	Proteins as Odorant and Chemosensory Rec	ceptors", <i>Science</i> - <u>286</u> :707-711 (1999				
	*36.	Monti-Bloch, L., "The Functionality of The Human Vomeronasa Organ: Influenced On Gonadotropin and Testosterone Plasma Level, and Autonomic Reflexes", Chemical Senses - 22:752 (1997)						
	*37.	Monti-Bloch, L. et al., "Effect of Putative Pheromones on the Electrical Activity of the Human Vomeronasal Organ and Olfactory Epithelium", J. Steroid Biochem. Molec. Biol 39:573-582 (1991)						
	*38.	Monti-Bloch et al., "Modulation of Serum Testosterone and Automomic Function through Stimulation of the Male Human Vomeronasal Organ (VNO) with Pregna-4,20-diene-3,6-dione", J. Steroid Biochem. Molec. Biol 65:237-242 (1998)						
	*39.	Monti-Bloch, "The Human Vomeronasal System", Ann. N.Y. Acad. Sci 855:373-389 (1998)						
V	*40. Monti-Bloch et al., "The Human Vomeronasal System" Pyschoneuroendocrinology - 19:673-686 (1994)							

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EXAMINER: Initial if citation considered, whether	r not the citation conforms with MPEP 609. Draw a line	thr	ugh the	itation if not in

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	•	(including aut	hor, title, date, pertinent pages, etc.)				
W	*41.	Moran et al., "The Vomeronasal (Jaco Biochem Molec Biol - <u>39</u> :545-552 (199	bson's) Organ in Man: Ultrastructure and Fr 1)	equency of Occurrence", J Steroid			
1/	*42.	Mori, et al., "The Olfactory Bulb: Codi	ng and Processing Of Odor Molecule Inform	ation", <i>Science</i> - <u>286</u> :711-715 (1999)			
	*43.	Syndrome and Isolated Hypogonadot	ormone Immunoreactivity in the Nasal Epith ropic Hypogonadism and in the Early Midtri – <u>82(1)</u> :309-314 (1997), ISSN: 0021-972X				
	*44.	Pantages et al., "A Novel Family of Ca	didiate Pheomone Receptors in Mammals",	Neuron - <u>28</u> :835-845 (2000)			
	*45.		one receptor gene expressed in human olfac 26, September 2000 (2000-09), pp. 18-19, XPO				
	*46.	Ryba et al., "A new multigene family o	f puntative pheromone receptor", Neuron -	<u>19</u> :371-379 (1997)			
	*47.	Saito, H., et al., "Isolation of Mouse Vo Messenger RNAs", Molecular Brain Ro	omeronasal Receptor Genes and Their Co-Lesearch – <u>60</u> :215-227 (1998)	ocalization With Specific G-Protein			
	*48.	Schaeren-Wiemers et al., "A single protocol to detect transcripts of various types and expression levels in neural tissue and cultured cells: in situ hybridization using digoxigenin-labelled cRNA probes", <i>Histochemistry</i> - 100:431-440 (1993)					
	*49.	Simon et al., "Diversity of G Proteins in Signal Transduction", Science - 252:802-808 (1991)					
	*50.	Simms, et al., "TRIzol: A New Reagent	Simms, et al., "TRizol: A New Reagent for Optimal Single-Step Isolation of RNA", Focus - 15(4):99-102				
	<b>*</b> 51.	Smith et al., "Searching for the Vome Size", Micro Res Tech - 41:483-491 (19	Smith et al., "Searching for the Vomeronasal Organ of Adult Humans: Preliminary Findings on Location Structure, an Size". Micro Res Tech - 41:483-491 (1998)				
	*52.	Sobel et al., "Blind smell: brain activate	Sobel et al., "Blind smell: brain activation induced by an undetexcted air-borne chemical", Brain - 122:209-217 (1999)				
	<b>*</b> 53.	Stern et al., "Making Sense of Scents", Science – 286:703 (1999)					
	*54.	Stern et al., "Regulation of ovulation b	oy human pheromones", <i>Nature</i> - <u>392</u> :177-17	9 (1998)			
	*55.	Takami et al., "Are Humans Equipped	to Detect Pheromones?" 1993, Neuroreport	<u>- 4</u> :375-378 (1993)			
	<b>*</b> 56.	Velasco, G., et al, "Nose Surgery and t	the Vomeronasal Organ", Aesthetic Plastic	Surgery - <u>19</u> :451-454 (1995)			
	*57.	Wysocki, "Neurobehavioral Evidence Neurosci Biobehav Rev - 3:301-341 (19	for the Involvement of the Vomeronasal Sys 979)	tem in Mammalian Reproduction",			
A)	*58.	Wysocki et al., "Consequences of Ren (1991)	noving the Vomeronasal Organ", J. Steroid	Biochem Molec Biol - <u>39</u> :661-669			
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m	Dulac, Catherine, "Sensory coding of pheromone signals in mammals", Current Opinion in Neurobiology, Vol. 10, pp 511-518, November 24, 1999.								
EXAMINER DATE CONSIDERED									

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